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Year XIII October, 1939 No. 10

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IMPERIAL MYCOLOGICAL INSTITUTE 30 OCT 1939

ROME
VILLA UMBERTO I
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ANNUAIRE INTERNATIONAL DE LÉGISLATION AGRICOLE, 1938

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CHRONICLE OF THE INTERNATIONAL INSTITUTE OF AGRICULTURE

The radio communiqués of the International Institute of Agriculture will be transmitted between 3 and 3.10 p. m. on the following days: Thursday, English ***and*** German; ***Friday,*** Spanish; ***Tuesday,*** Italian ***and*** French.

They will be broadcast from Rome II (245.5 m.) and Rome 2 RO 4 (25.4 m.).

The hour of broadcasts is Central European Time, which is one hour ahead of Greenwich Mean Time, and 5 hours ahead of Eastern Standard Time in the United States.

Permanent Committee of the International Institute of Agriculture. — The autumn meeting of the Permanent Committee of the Institute began on October 12. The agenda, in addition to the normal questions, included the preparation of the programme of the coming General Assembly, to be held in May 1940.

International Forestry Centre. — As stated in the August chronicle, the International Forestry Centre, formed within the framework of the International Institute of Agriculture, began work on July 1, at temporary premises at Robertstrasse 7, Berlin-Wannsee. Its first month of activity was mainly devoted to preparation and organization. The Centre has prepared à booklet containing articles on its origin, aims and organisation, a summary of the proceedings of the coming International Forestry Congress at Helsinki, the minutes of the foundation meeting and other documents. This booklet, which is illustrated, has been prepared for Governments and all persons and organisations concerned in forestry.

During the summer the Centre made its first contact with forestry interests and prepared the meeting of the Committee. The agenda of the meeting, which was held at Rome on October 9 and 10, included the following items: (1) The activity of the Forestry Centre from July 1 to September 25; (2) The revised draft Budget for 1939; (3) the Budget for 1940; (4) the provisional accountancy system of the I. F. C.; (5) the 1940 programme of work; (6) creation of the library.

An outline of the proceedings of the Committee will be given in the November chronicle.

Meeting of the Special Committee of the Horticultural Section of the Institute. — It was reported in the July chronicle that this Committee would meet at the Institute on October 6 and 7. It was necessary to postpone this meeting, but the interesting documentation prepared by the Institute was submitted to all the members of the Special Committee.

Permanent Agricultural Commission of the International Labour Office. — The two meetings of this Commission previously arranged for October 30 have been postponed.

European Conference on Rural Life. — The Secretary to the League of Nations has informed the Institute that this Conference has been postponed.

IIIrd International Congress of Rural Engineering. — This Congress, which was to have been held under the auspices of the F. I. T. A. (Federazione internazionale dei Tecnici agricoli) at the International Institute of Agriculture, on September 20-23, has been postponed.

XXth Congress of the International Professional Horticultural Federation (Zurich, July 31 to August 3, 1939). — The Institute was represented at this Congress by the Director of its Horticultural Section.

VIth International Chemical Congress of Agricultural Industries. — This Congress was held at Budapest on July 10-20, 1939. More than 900 members attended. The International Institute of Agriculture was represented by Prof. Georges Ray, Chief of the Technical Bureau, who presented a Report on the standardisation of methods of analysis, showing the importance of the work of the Institute in this field in recent years.

The programme of the Congress included for the first time certain questions relating to agricultural industries other than those producing food and some economic questions.

The VIIth Congress will be held in Rome in 1942.

PUBLICATIONS OF THE INTERNATIONAL INSTITUTE OF AGRICULTURE

JUST OUT:—

THE FIRST WORLD AGRICULTURAL CENSUS (1930)

(5 volumes, pp. 2,342, 8vo.)

This publication, issued in English and French, is a reprint of the 40 Bulletins containing the statistical results of the Censuses of the countries which took part in the First World Agricultural Census and of the volume containing the Methodological Study.

The issue of all this material in 5 volumes makes the work more convenient for consultation. It has the twofold advantage of consolidating the results of the First World Census and of making a useful contribution towards the organisation of the Second World Agricultural Census to be held in 1940.

The contents of the 5 volumes are indicated below:

VOLUME I: **Standard form - Methodological study - Notes on tabulation of the census results.** (268 pp., diagrams).

VOLUME II: **Austria - Belgium - Czechoslovakia - Denmark - Estonia - Finland - France.** (494 pp.).

VOLUME III: **Germany - Greece - Irish Free State - Italy - Latvia - Lithuania - Netherlands - Norway - Spain - Sweden - Switzerland - United Kingdom: England and Wales, Scotland, Northern Ireland.** (592 pp.)

VOLUME IV: **Canada - United States - Outlying Territories and Possessions of the United States - Mexico - Argentina - Chile - Peru - Uruguay.** (508 pp.).

VOLUME V: **India - Japan - Algeria - Egypt - French West Africa - Kenya - Mauritius - Mozambique - Union of South Africa - Commonwealth of Australia - New Zealand.** (480 pp.).

The complete Series (5 volumes) is on sale at 200 lire.

Each volume 50 lire.

JUST OUT:—

INTERNATIONAL DIRECTORY OF AGRICULTURAL ENGINEERING INSTITUTIONS

(VIII + 152 pages, 8vo).

PRICE: **20 lire,** *post free.*

This publication is the fifth of the " Liste d'Etablissements d'enseignement et de recherches s'occupant de Génie rural ", published in a French edition only by the Institute in 1930.

The first four editions, now out of print, demonstrated the interest that agricultural circles and rural engineering experts took in an enterprise which fulfilled the resolution made in 1930 by the first International Congress of Rural Engineering at Liège.

The new edition lists about 240 institutions. It forms an international hand book of rural engineering in which the institutions mentioned are given geographically by continents and by country (in the French alphabetical order). For every institution listed are given the address, staff, current work, equipment, the principal publications since 1934 and the foreign languages which may be used in correspondence.

An appendix indicates the central organisations of the makers and dealers of agricultural machinery, the exhibitions relating to rural engineering, classed by country, and the most important publications on rural engineering.

IN THE PRESS:—

L'OLIVIER DANS LE MONDE

(The Olive Growing Countries – Area, Production and Trade in Olive Products).

(French edition only at present, about 300 pp., 8vo., with maps).

PRICE: **25 lire,** *post free.*

This volume is the fourth in the series of studies on the principal agricultural products on world markets. Full information is given for twenty-seven countries where olives are grown, on the area and number of trees, the production of olives for consumption and for oil, the production of edible and inedible oil and yields. A special chapter is reserved for trade in oil and olives for direct consumption showing the origin and destination of exports.

The work is mainly statistical but gives as much information as possible on the varieties of olives, on the soils favourable for olive trees, rainfall, etc. The statistics are based on official data obtained by the Institute direct from Governments and cover a fairly long period, i. e., in general, 20 years for production and ten years for, trade. Since, as far as is known, there is no other work, or at least no recent work, which provides such an extensive view of world oliviculture, it is hoped that the volume will be welcomed by all persons interested in olive questions, particularly at a moment when attempts are being made to make full use of national resources, among which oils and fats occupy a most important position.

Reprint from the *International Bulletin of Plant Protection* (*International Institute of Agriculture*), Rome, 1939, Year XIII, No. 10.

20 OCT 1975

Palestine: Diseases of Vegetable Crops *

In the following a preliminary list is given of diseases occurring on vegetables in Palestine, as studied at the Division of Plant Pathology of the Agricultural Research Station, Rehovot, from 1923 to 1938. The author was assisted in the collection and determination of these diseases by Dr. M. Chorin, Ing. G. Minz, Dr. J. Perlberger and Dr. F. Littauer, assistants at the above mentioned laboratory.

Allium cepa Linn. - Onion.	*Aspergillus* sp.	Bulb rot.
	Bacterium spp.	Bulb rot.
	Fusarium sp.	Bulb rot, root rot.
	Peronospora schleideni Ung.	Downy mildew, leaves.
	Puccinia porri (Sow.) Wint.	Rust.
	Heterodera marioni (Cornu) Goodey.	Root-knot.
A. sativum Linn. - Garlic.	*Aspergillus* sp.	Bulb rot.
	Bacterium sp.	Leaf rot.
	Fusarium sp.	Root rot.
	Puccinia allii (DC.) Rud.	Rust.
	Puccinia porri (Sow.) Wint.	Rust.
	Sclerotium bataticola Taub.	Dry bulb rot.
Apium graveolens Linn. - Celery.	*Fusarium* sp.	Root rot, collar and root rot.
	Sclerotium bataticola Taub.	Collar and root rot.
	Chlorosis (undetermined).	
	Heterodera marioni (Cornu) Goodey.	Root-knot.
Arachis hypogaea Linn. - Ground nut.	*Fusarium* sp.	Root rot.
	Rhizoctonia solani Kühn.	Root rot.
	Sclerotium bataticola Taub.	Root rot.
	Chlorosis (undetermined).	
	Leaf spot (undetermined).	

* Communication from the official correspondent of the Institute, Dr. I. Reichert, Chief Plant Pathologist, Division of Plant Pathology, Agricultural Research Station, Rehovot, Palestine.

Asparagus sp.	*Fusarium* sp.	Rhizome and root rot, stem rot.
	Rhizoctonia solani Kühn.	Stem rot.
	Sclerotium bataticola Taub.	Rhizome rot.
	Wilt (non-parasitic).	
	Yellows (non-parasitic).	
	Heterodera marioni (Cornu) Goodey.	Root-knot.
Beta vulgaris Linn. - Beet.	*Alternaria* sp.	Leaf spot.
	Aspergillus sp.	Root rot.
	Bacterium spp.	Leaf spot, leaf rot.
	Bacterium tumefaciens EFS. et Town.	Crown-gall.
	Cercospora beticola Sacc.	Leaf spot.
	Erysiphe communis Grev.	Mildew.
	Fusarium sp.	Wilt, root rot, collar and root rot.
	Macrosporium sp.	Leaf spot.
	Phoma sp.	Wilt, root rot.
	Pythium sp.	Root rot.
	Rhizoctonia solani Kühn.	Damping off.
	Sclerotium bataticola Taub.	Root rot.
	Rhizopus sp.	Root rot.
	Uromyces betae (Pers.) Lév.	Rust.
	Urophlyctis pulposa Schr.	Galls.
	Reddish violet leaf discoloration (undetermined).	
B. vulgaris Linn. 'Mangold'. - Silver beet.	*Cercospora beticola* Sacc.	Leaf spot.
	Sclerotium rolfsii Sacc.	Root rot.
B. vulgaris Linn. var. *rapa*. - Sugar beet.	*Bacterium tumefaciens* EFS. et Town.	Crown gall.
	Fusarium sp.	Root rot.
	Urophlyctis pulposa Schr.	Galls.
Brassica campestris Linn. var. *rapifera* - Swede.	*Alternaria brassicae* (Berk.) Sacc.	Leaf spot.
B. oleracea Linn. var. *botrytis* Linn. - Cauliflower.	*Alternaria brassicae* (Berk.) Sacc.	Leaf spot.
	Bacterium spp.	Soft rot.
	Diplodia sp.	Collar and root rot, root rot.
	Fusarium sp.	Root rot, damping off, wilt.
	Macrosporium sp.	Black head.
	Peronospora parasitica (Pers.) de By.	Downy mildew.

Brassica oleracea Linn. var. *botrytis* Linn. - Cauliflower (*continued*).	*Plasmodiophora brassicae* Wor.	Club root.
	Pseudomonas campestris (Pam.) Erw. Sm.	Black rot.
	Pythium sp.	Wilt, damping off, collar and root rot.
	Rhizoctonia solani Kühn.	Damping off, collar and root rot, wilt.
	Sclerotinia sclerotiorum (Lib.) Mass.	Root and collar rot, root rot, stem rot.
	Sclerotium bataticola Taub.	Root rot.
	Leaf desiccation (non-parasitic).	
	Violet head discoloration (non-parasitic).	
	Sun scald on seedlings.	
	Greyish-white spots (non-parasitic).	
	Leaf yellowing (non-parasitic).	
	Heterodera marioni (Cornu) Goodey.	Root-knot.
B. oleracea Linn. var. *capitata* Linn. - Cabbage.	*Alternaria brassicae* (Berk.) Sacc.	Black leaf spot.
	Bacterium spp.	Soft rot, head soft rot, soft root rot.
	Fusarium sp.	Root rot.
	Macrosporium sp.	Black leaf spot.
	Peronospora parasitica (Pers.) de By.	Downy mildew.
	Phoma lingam (Tode) Desm.	Damping off.
	Phyllosticta sp.	Leaf spot.
	Plasmodiophora brassicae Wor.	Club root.
	Pseudomonas campestris (Pam.) Erw.Sm.	Black rot.
	Pythium sp.	Root rot.
	Rhizoctonia solani Kühn.	Collar and root rot; damping off.
	Sclerotinia sclerotiorum (Lib.) Mass.	Head soft rot.
	Oedema (broken pustules) (non-parasitic).	

Brassica oleracea Linn. var. *capitata* Linn. - Cabbage (*continued*).	Yellows and wilt of the leaves (non-parasitic).	
	Dry leaf spots (non-parasitic).	
	Orobanche sp.	Broom rape.
	Heterodera marioni (Cornu) Goodey.	Root-knot.
B. oleracea Linn. var. *cymosa*. - Broccoli.	*Fusarium* sp.	Collar and root rot.
	Pythium sp.	Collar rot.
	Heterodera marioni (Cornu) Goodey.	Root-knot.
B. oleracea Linn. var. *gongylodes*. - Kohlrabi.	*Alternaria brassicae* (Berk.) Sacc.	Black leaf spot.
	Peronospora parasitica (Pers.) de By.	Downy mildew.
	Plasmodiophora brassicae Wor.	Club root.
	Pseudomonas campestris (Pam.) Erw. Sm.	Black rot.
	Cuscuta sp.	Dodder.
	Heterodera marioni (Cornu) Goodey.	Root-knot.
B. oleracea Linn. var. *sabauda*.	*Pseudomonas campestris* (Pam.) Erw. Sm.	Black rot.
B. rapa Linn. - Turnip.	*Alternaria brassicae* (Berk.) Sacc.	Black leaf spot.
	Bacterium sp.	Black rot.
	Cercosporella albomaculans (Ell. et Ev.) Sacc.	Leaf spot.
	Fusarium sp.	Root rot.
	Oidium sp.	Mildew.
	Orobanche sp.	Broom rape.
	Heterodera marioni (Cornu) Goodey.	Root-knot.
Capsicum annuum Linn. - Pepper.	*Alternaria* sp.	Fruit spot
	Bacterium spp.	Fruit soft rot.
	Cercospora capsici Heald et Wolf.	Leaf spot.
	Fusarium spp.	Wilt, root rot; collar and root rot.
	Oidiopsis sp.	
	Phyllosticta sp.	Leaf spot.
	Phytophthora sp. ?	Collar and root rot.
	Pythium sp.	Root rot.
	Rhizoctonia solani Kühn.	Collar and root rot.

Capsicum annuum Linn. - Pepper (*continued*).	*Sclerotinia sclerotiorum* (Lib.) Mass.	Stem dry rot.
	Sclerotium bataticola Taub.	Collar and root rot.
	Sclerotium rolfsii Sacc.	Collar and root rot.
	Crinkled leaf.	Virus ?
	Frost injury.	
	Fruit malformation.	Virus ?
	Leaf curl.	Virus ?
	Leaf mosaic.	Virus ?
	Sun scald.	
	Root-knot ?	
Cichorium endivia Linn. - Endive.	*Bacterium* sp.	Soft root rot.
	Bremia lactucae Regel.	Downy mildew.
	Fusarium sp.	Rot of leaf and petioles.
Cochlearia armoracia Linn. - Horse-radish.	*Albugo candida* (Pers.) Ktz.	White rust on leaves.
	Alternaria sp.	Leaf spot.
	Ascochyta armoraciae Fckl.	Leaf spot.
	Cercospora armoraciae Sacc.	Leaf spot.
	Fusarium sp.	Collar rot.
	Rhizoctonia solani Kühn.	Collar rot, root rot.
	Sclerotinia minor Jagger.	Collar rot.
	Sclerotium bataticola Taub.	Collar rot.
	Heterodera marioni (Cornu) Goodey.	Root-knot.
Cucumis melo Linn. - Muskmelon, cantaloupe.	*Alternaria* sp.	Leaf spot.
	Macrosporium sp.	Leaf blight.
	Oidium sp.	Mildew.
	Peronoplasmopara cubensis (B. et C.) Clint.	Downy mildew.
	Heterodera marioni (Cornu) Goodey.	Root-knot.
C. sativus Linn. - Cucumber.	*Alternaria* sp.	Black leaf spot.
	Bacterium spp.	Damping off.
	Choanephora cucurbitarum (B. et Rav.) Thar.	Blossom-end rot.
	Cladosporium sp.	Leaf blackening.
	Dematium sp.	Leaf mould.
	Fusarium sp.	Wilt, damping off, collar and root rot.
	Oidium sp.	Mildew.
	Peronoplasmopara cubensis (B. et C.) Clint.	Downy mildew.
	Phoma sp.	Damping off, root shrivelling.

Cucumis sativus Linn. - Cucumber (*continued*).	*Pythium aphanidermatum* (Edson) Fitz.	Shrivelling and root rot.
	Pythium sp.	Root rot, damping off.
	Rhizoctonia solani Kühn.	Wilt, damping off, collar and root rot.
	Sclerotinia sclerotiorum (Lib.) Mass.	Dry stem and root rot, damping off.
	Sclerotium bataticola Taub.	Dry root rot, collar and root rot.
	White dry leaf spots (non-parasitic).	
	Leaf drying (non-parasitic).	
	Leaf spot (non-parasitic).	
	Fruit shrivelling (non-parasitic).	
	White leaf spots (non-parasitic).	
	Mosaic.	Virus.
	Heterodera marioni (Cornu) Goodey.	Root-knot.
Cucurbita pepo Linn. - Pumpkin.	*Alternaria* sp.	Fruit spot.
	Bacterium spp.	Withertip, fruit rot.
	Bacterium sp.	Fruit wilting, fruit hollow, white leaf spot.
	Fusarium sp.	Leaf shrivelling and drying, fruit rot.
	Macrophomina sp.	Fruit rot, wilt.
	Oidium sp.	Mildew.
	Rhizopus sp.	Soft fruit rot.
	Sclerotium bataticola Taub.	Stem rot, drying of plants.
	Heterodera marioni (Cornu) Goodey.	Root-knot.
C. pepo Linn. var. *ovifera* Bailey. - Marrow.	*Alternaria* sp.	Fruit spot, black leaf spot.
	Bacterium spp.	Collar soft rot, blossom end rot.
	Cladosporium sp.	Leaf sooty mould.
	Colletotrichum sp.	Fruit spot.
	Fusarium sp.	Yellowing of the fruit, blossom end rot, root rot mildew.
	Oidium sp.	Blossom and rot.
	Pythium sp.	Collar and root rot.
	Rhizoctonia solani Kühn.	Fruit soft rot.

Cucurbita pepo Linn. var. *ovifera* Bailey - Marrow (*continued*).	*Rhizopus nigricans* Ehrenb.	Fruit rot, root and petiole rot.
	Sclerotinia sclerotiorum (Lib.) Mass.	
	Blossom end rot (undetermined).	
	Chlorosis, dry spots on leaves (undetermined).	
	Shrivelling and dropping of the young fruit (non-parasitic).	
	Mosaic (virus ?).	Leaves.
	Rosette (virus ?).	
	Heterodera marioni (Cornu) Goodey.	Root-knot.
Cynara scolymus Linn. - Artichoke.	*Bacterium* sp.	Soft root rot.
	Botrytis sp.	Rot, leaves.
	Cladosporium sp.	Blossom blight.
	Fusarium sp.	Leaf rot, blossom rot.
	Oidiopsis taurica Tepper.	Mildew.
	Heterodera marioni (Cornu) Goodey.	Root-knot.
Daucus carota Linn.	*Aecidium* sp.	Leaf scorch.
	Alternaria sp.	Leaf blight, leaf scorch, yellows, leaf spot.
	Bacillus carotovorus L. R. Jones.	Soft rot.
	Cercospora apii-carotae Pass.	Leaf blight and spot.
	Fusarium sp.	Yellowing of the leaves, damping off, root rot.
	Macrosporium carotae Ell. et A. B. Langlois.	Leaf blight.
	Oidium sp.	Mildew.
	Rhizoctonia solani Kühn.	Wilt.
	Sclerotium bataticola Taub.	Collar and root rot, root rot.
	Root cracking (non-parasitic).	
	Yellow discoloration and drying of leaves (non-parasitic).	
	Orobanche sp.	Brown rape.
	Heterodera marioni (Cornu) Goodey.	Root-knot.

Foeniculum sp. – Dill.	*Marssonina kirchneri* Hegyi.	Stem and leaf blight.
Helianthus tuberosus Linn. – Jerusalem Artichoke.	*Fusarium* sp.	Corm wilt, collar and root rot.
	Sclerotium bataticola Taub.	Collar and root rot.
Hibiscus esculentus Linn. – Okra.	*Erysiphe cichoracearum* DC.	Powdery mildew.
	Stemphylium sp.	Leaf spot.
	Leaf spot (non-parasitic).	
Ipomoea batatas Poir. – Sweet potato.	*Alternaria* sp.	Leaf spot.
	Fusarium sp.	Tuber and root rot.
	Rhizoctonia solani Kühn.	Root rot.
	Sclerotinia sclerotiorum (Lib.) Mass.	Tuber rot.
	Leaf spot (non-parasitic).	
	Tuber cracking (non-parasitic).	
	Root rot (undetermined).	
Lactuca sativa Linn. - Lettuce.	*Alternaria* sp.	Leaf spot.
	Bacterium spp.	Soft rot.
	Bremia lactucae Regel.	Downy mildew
	Cercospora sp.	Leaf spot.
	Fusarium sp.	Collar and root rot.
	Pythium sp.	Associated with collar rot.
	Rhizoctonia solani Kühn.	Collar rot, damping off.
	Sclerotinia minor Jagger.	Soft rot, drop.
	Sclerotinia sclerotiorum (Lib.) Mass.	Soft rot.
	Sclerotinia sp.	Soft rot, wilt.
	Heterodera marioni (Cornu) Goodey.	Root-knot.
Lagenaria vulgaris Ser. - Pumpkin.	*Oidium* sp.	Mildew.
	Mosaic (virus ?).	Leaves.
Oxalis sp.	*Phyllosticta* sp.	Leaf spot.
Petroselinum sativum Hoffm. - Parsley.	*Cercospora apii* Fresen.	Leaf spot.
	Ramularia sp.	Leaf spot.
	Sclerotium bataticola Taub.	Associated with root-knot of undetermined cause.
	White tip (non-parasitic).	
	Heterodera marioni (Cornu) Goodey.	Root-knot.
Phaseolus vulgaris Linn. - Runner Bean.	*Alternaria* sp.	Drying of leaves.
		Leaf spot.

Phaseolus vulgaris Linn. - Runner Bean (*continued*).	*Ascochyta phaseolorum* Sacc.	Leaf spot.
	Bacterium sp.	Seed wilt.
	Cercospora sp.	Leaf spot.
	Colletotrichum lindemuthianum (Sacc. et Magn.) Briosi et Cav.	Anthracnose.
	Erysiphe communis (Wallr.) Fr.	Powdery mildew.
	Fusarium sp.	Wilt, damping off, collar and root rot.
	Macrosporium sp.	Leaf spot.
	Phyllosticta sp.	Leaf spot.
	Pythium sp.	Collar rot.
	Rhizoctonia solani Kühn.	Collar and root rot, damping off.
	Sclerotinia sclerotiorum (Lib.) Mass.	Stem rot.
	Sclerotium bataticola Taub.	Wilt, damping off, collar and root rot.
	Sclerotium rolfsii Sacc.	Collar rot.
	Uromyces appendiculatus (Pers.) Lk.	Rust.
	Blight (undetermined).	
	Chlorosis (non-parasitic).	
	Frost injury.	
	Leaf scorch (non-parasitic).	
	Leaf spot (non-parasitic).	
	Leaf spot (undetermined).	
	Pod spot (non-parasitic).	
	Pod spot (undetermined).	
	Crinkle (virus ?).	
	Leaf curl (virus ?).	
	Mosaic (virus ?).	
	Heterodera marioni (Cornu) Goodey.	Root-knot.
Pisum sativum Linn. - Pea.	*Ascochyta pisi* Lib.	Leaf spot.
	Fusarium sp.	Stem, collar and root rot, blossom rot.
	Oidium sp.	Powdery mildew.
	Rhizoctonia solani Kühn.	Root rot, stem rot.
	Uromyces pisi (Pers.) de By.	Rust.
	Black spot (non-parasitic).	Seed.

Pisum sativum Linn. - Pea (*continued*).	Frost injury.	
	Mosaic (virus ?).	
	Orobanche speciosa DC.	Brown rape.
	Orobanche sp.	Brown rape.
	Heterodera marioni (Cornu) Goodey.	Root-knot.
Raphanus sativus Linn. - Radish.	*Albugo candida* (Pers.) Ktz	White rust.
	Alternaria brassicae (Berk.) Sacc.	Leaf spot.
	Bacterium tumefaciens EFS. et Town.	Crown gall.
	Cercospora armoraciae Sacc.	Leaf spot.
	Cladosporium sp.	Leaf spot. Associated with *Fusarium* and *Stemphylium*.
	Fusarium sp.	Root rot. Associated with *Cladosporium* and *Stemphylium*.
	Oidium sp.	Mildew.
	Peronospora parasitica (Pers.) de By.	Powdery mildew.
	Plasmodiophora brassicae Wor.	Club root.
	Pseudomonas campestris (Pam.) Erw. Sm.	Black rot.
	Sclerotium bataticola Taub.	Root rot.
	Stemphylium sp.	Leaf spot. Associated with *Cladosporium* and *Fusarium*.
	Black spots on root bark (non-parasitic).	
	Mosaic (virus ?), rosette.	On leaves.
	Heterodera marioni (Cornu) Goodey.	Root-knot.
R. sativus Linn. var. *radicula*.	*Albugo candida* (Pers.) Ktz.	White rust.
	Plasmodiophora brassicae Wor.	Club root.
	Heterodera marioni (Cornu) Goodey.	Root-knot.
Rheum undulatum Linn.	*Ascochyta rhei* Ell. et Ev.	Leaf spot.
	Bacterium sp.	Soft root rot.

Rheum undulatum Linn. (*continued*).	*Cercospora rhei* Teh. et Dan.	Leaf spot.
	Fusarium sp.	Associated with *Rhizoctonia solani* Kühn and *Sclerotium bataticola* Taub.
		Root rot.
	Macrosporium sp.	Leaf spot.
	Rhizoctonia solani Kühn.	Leaf stalk base rot.
	Sclerotium bataticola Taub.	Collar rot, rot of the leaf stalk base.
Rheum sp. - Rhubarb.	*Alternaria* sp.	Leaf spot.
	Oidium sp.	Mildew.
	Ramularia rhei Allesch.	Leaf spot.
	Heterodera marioni (Cornu) Goodey.	Root-knot.
Scorzonera hispanica Linn. - Serpent root.	*Heterodera marioni* (Cornu) Goodey.	Root-knot.
Solanum lycopersicum Journ. - Tomato.	*Alternaria solani* (Ell. et Mart.) Jones et Grout.	Leaf spot.
	Bacterium spp.	Drying of leaves, leaf spots, blossom end rot, fruit spots, water soaked spots, dry rot, soft fruit rot.
	Cladosporium fulvum Cke.	Leaf mould.
	Colletotrichum phomoides (Sacc.) Chester.	Anthracnose on fruit.
	Didymella lycopersici (Brun.) Klebahn.	Fruit blight.
	Fusarium bulbigenum Cooke et Massee var. *lycopersici* (Brushi) Wollw. et Reinking.	Wilt, darkening of the vascular bundles.
	Fusarium equiseti (Corda) Sacc.	Root rot.
	Fusarium sp.	Collar and root rot, wilt, damping off, yellow discoloration and shrivelling of the plant.
	Macrosporium solani E et M.	Leaf spot, root rot.
	Oidiopsis sp.	Mildew.
	Phoma destructiva Plow.	Fruit rot, leaf spot.

Solanum lycopersicum Journ. - Tomato (*continued*).	*Phyllosticta* sp.	Leaf spot.
	Phytophthora infestans (Mont.) de By.	Late blight.
	Phytophthora parasitica Dast.	Fruit rot.
	Phytophthora sp.	Fruit rot.
	Pleospora sp.	Fruit spot. Associated with *Macrosporium* fruit spot.
	Pythium aphanidermatum (Eds.) Fitz.	Stem and collar rot.
	Pythium sp.	Collar and root rot, wilt, fruit rot, damping off.
	Rhizoctonia solani Kühn.	Collar and root rot, wilt, damping off.
	Sclerotinia minor Jagger.	Dry stem rot, fruit rot, collar and root rot.
	Sclerotinia sclerotiorum (Lib.) Mass.	Stem and collar dry rot, fruit rot.
	Sclerotium bataticola Taub.	Collar and root rot, wilt, root rot, damping off.
	Sclerotium rolfsii Sacc.	Stem, collar and root rot.
	Septoria lycopersici Speg.	Leaf spot.
	Black tip.	
	Blossom drop (non-parasitic).	
	Blossom end rot (non-parasitic).	
	Dry fruit and leaf spot (non-parasitic).	
	Flower drop (non-parasitic).	
	Fruit cracking (non-parasitic).	
	Fruit drop (non-parasitic).	
	Frost injury.	
	Hail injury.	
	Gum spot (non-parasitic).	
	Sun scald (non-parasitic).	
	Soft fruit rot (undetermined).	
	White downy leaf cover (undetermined).	

Solanum lycopersicum Journ. - Tomato (*continued*).	Withertip (non-parasitic).	
	Big bud (fern leaf).	
	Crinkle.	
	Curly top.	
	Fern leaf.	
	Leaf curl.	
	Leaf roll.	
	Mosaic.	
	Narrow leaf, dwarf.	
	Rosette ?	
	Rugose mosaic.	
	Streak (spotted wilt ?).	
	Orobanche aegyptiaca Pers.	
	Orobanche sp.	
	Heterodera marioni (Cornu) Goodey.	Root-knot.
S. melongena Linn. - Eggplant.	*Alternaria solani* (Ell. et Mart.) Jones et Gr.	Damping off ?
		Leaf spot, fruit spot.
	Bacterium spp.	Soft fruit rot, wilt.
	Colletotrichum atramentarium (Berk. et Br.) Taub.	Fruit rot, leaf spot, anthracnose.
	Fusarium sp.	Collar and root rot, fruit rot, damping off.
	Macrosporium solani E. et M.	Leaf drop, and spot.
	Oidiopsis taurica Tepper.	Mildew.
	Phoma sp.	Leaf drop, yellowing of stems.
		Associated with stem-end rot.
		Associated with wilt and rot of seedlings.
		Associated with collar and root rot.
	Pleospora sp.	Stem spot.
	Pythium sp.	Wilt.
	Pythium sp.	Wilt, root rot, collar and root rot.
	Rhizoctonia solani Kühn.	Wilt, damping off, collar and root rot.
	Sclerotinia minor Jagger.	Stem rot.
	Sclerotinia sclerotiorum (Lib.) Mass.	Fruit rot, stem rot, collar rot.

Solanum melongena Linn. - Eggplant (*continued*).	*Sclerotium bataticola* Taub.	Collar and root rot, damping off.
	Sclerotium rolfsii Sacc.	Stem rot, collar rot; collar and root rot.
	Septoria lycopersici Speg.	Leaf spot.
	Stemphylium sp.	Leaf spot.
	Verticillium albo-atrum Reinke et Berth.	Tracheomycotic wilt.
	Black small leaf spots (undetermined).	
	Black tip (non-parasitic).	
	Blossom drop (non-parasitic).	
	Brownishing of the fruit, frost injury.	
	Fruit cracking (non-parasitic).	
	Leaf cracking (non-parasitic).	
	Spray injury on leaves.	
	Big bud (virus ?).	
	Mosaic leaf spots (virus).	
	White cover on leaf surface (non-parasitic).	
	Wither-tip (non-parasitic).	
	Heterodera marioni (Cornu) Goodey.	Root-knot.
S. tuberosum Linn. - Potato.	*Actinomyces scabies* (Thaxt.) Güssow.	Common scab
	Alternaria solani (Ell. et Mart.) R. Jones et Gr.	Fruit leaf spot.
	Bacillus phytophthorus Appel.	Black leg.
	Bacterium spp.	Collar and root rot, tuber soft rot, black tip, wither-tip, root rot, black leg.
	Diplodia sp.	Tuber rot.
	Fusarium sp.	Collar and root rot, wilt, tuber rot, damping off.
	Macrosporium solani E. et M.	Black leaf spot.
	Oidium sp.	Mildew.
	Phoma sp.	Collar and root rot.
	Phyllosticta sp.	Leaf spot.

Solanum tuberosum Linn. - Potato (*continued*).	*Phytophthora infestans* (Mont.) de By.	Late blight.
	Pythium sp.	Stem rot, tuber rot.
	Rhizoctonia solani Kühn.	Collar and root rot, stem rot, brownish tuber spots.
	Sclerotinia minor Jagger.	Collar and stem dry rot.
	Sclerotinia sclerotiorum (Lib.) Mass.	Stem rot.
	Sclerotium bataticola Taub.	Collar and root rot, black tuber rot, black tuber spots, dry stem rot.
	Sclerotium rolfsii Sacc.	Collar, root and tuber rot, collar rot.
	Spongospora subterranea (Wallr.) Johnson.	Powdery scab.
	Stemphylium sp.	Leaf spot.
	Black dry leaf spots (non-parasitic).	
	Leaf scorch (non-parasitic).	
	Lenticel enlargement (non-parasitic).	
	Sun scald (non-parasitic).	
	Tip burn (non-parasitic).	
	Aucuba mosaic.	
	Calico.	
	Crinkle.	On leaves.
	Leaf curl.	
	Leaf roll.	
	Mosaic.	
	Net necrosis.	
	Streak.	
	Heterodera marioni (Cornu) Goodey.	Root-knot.
Spinacia oleracea Linn. - Spinach.	*Ascochyta chenopodii* Rostr.	Leaf blight.
	Cercospora flagelliformis Ell. et Hals.	Leaf spot.
	Peronospora effusa (Grev.) Ces.	Downy mildew.
	Phyllosticta chenopodii Sacc.	Leaf spot.
	Rhizoctonia solani Kühn.	Yellowing of leaves.
	Black tip (non-parasitic).	

Spinacia oleracea Linn. - Spinach (*continued*).	Leaf yellowing (non-parasitic).	
	Cuscuta sp.	
	Heterodera marioni (Cornu) Goodey.	Root-knot.
Tetragonia expansa Thunb. - New Zealand spinach.	*Alternaria* sp.	Black spot.
	Cercospora flagelliformis Ell. et Hals.	Spot.
	Fusarium sp.	Root rot.
	Phoma sp.	Spot.
	Sclerotinia sclerotiorum (Lib.) Mass.	Dry rot.
	Leaf scorch (non-parasitic).	
	Leaf yellowing (non-parasitic).	
	Panachure (non-parasitic).	

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DISCOVERIES AND CURRENT EVENTS *

Palestine: Diseases of Vegetable Crops †

In the following a preliminary list is given of diseases occurring on vegetables in Palestine, as studied at the Division of Plant Pathology of the Agricultural Research Station, Rehovot, from 1923 to 1938. The author was assisted in the collection and determination of these diseases by Dr. M. Chorin, Ing. G. Minz, Dr. J. Perlberger and Dr. F. Littauer, assistants at the above mentioned laboratory.

Allium cepa Linn. - Onion.	*Aspergillus* sp.	Bulb rot.
	Bacterium spp.	Bulb rot.
	Fusarium sp.	Bulb rot, root rot.
	Peronospora schleideni Ung.	Downy mildew, leaves.
	Puccinia porri (Sow.) Wint.	Rust.
	Heterodera marioni (Cornu) Goodey.	Root-knot.
A. sativum Linn. - Garlic.	*Aspergillus* sp.	Bulb rot.
	Bacterium sp.	Leaf rot.
	Fusarium sp.	Root rot.
	Puccinia allii (DC.) Rud.	Rust.
	Puccinia porri (Sow.) Wint.	Rust.
	Sclerotium bataticola Taub.	Dry bulb rot.
Apium graveolens Linn. - Celery.	*Fusarium* sp.	Root rot, collar and root rot.
	Sclerotium bataticola Taub.	Collar and root rot.
	Chlorosis (undetermined).	
	Heterodera marioni (Cornu) Goodey.	Root-knot.
Arachis hypogaea Linn. - Ground nut.	*Fusarium* sp.	Root rot.
	Rhizoctonia solani Kühn.	Root rot.
	Sclerotium bataticola Taub.	Root rot.
	Chlorosis (undetermined).	
	Leaf spot (undetermined).	

* Under this and the next heading the countries are arranged in French alphabetical order.

† Communication from the official correspondent of the Institute, Dr. I. Reichert, Chief Plant Pathologist, Division of Plant Pathology, Agricultural Research Station, Rehovot, Palestine.

Asparagus sp.	*Fusarium* sp.	Rhizome and root rot, stem rot.
	Rhizoctonia solani Kühn.	Stem rot.
	Sclerotium bataticola Taub.	Rhizome rot.
	Wilt (non-parasitic).	
	Yellows (non-parasitic).	
	Heterodera marioni (Cornu) Goodey.	Root knot.
Beta vulgaris Linn. - Beet.	*Alternaria* sp.	Leaf spot.
	Aspergillus sp.	Root rot.
	Bacterium spp.	Leaf spot, leaf rot.
	Bacterium tumefaciens EFS. et Town.	Crown-gall.
	Cercospora beticola Sacc.	Leaf spot.
	Erysiphe communis Grev.	Mildew.
	Fusarium sp.	Wilt, root rot, collar and root rot.
	Macrosporium sp.	Leaf spot.
	Phoma sp.	Wilt, root rot.
	Pythium sp.	Root rot.
	Rhizoctonia solani Kühn.	Damping off.
	Sclerotium bataticola Taub.	Root rot.
	Rhizopus sp.	Root rot.
	Uromyces betae (Pers.) Lév.	Rust.
	Urophlyctis pulposa Schr.	Galls.
	Reddish violet leaf discoloration (undetermined).	
B. vulgaris Linn. 'Mangold'. - Silver beet.	*Cercospora beticola* Sacc.	Leaf spot.
	Sclerotium rolfsii Sacc.	Root rot.
B. vulgaris Linn. var. *rapa*. - Sugar beet.	*Bacterium tumefaciens* EFS. et Town.	Crown gall.
	Fusarium sp.	Root rot.
	Urophlyctis pulposa Schr.	Galls.
Brassica campestris Linn. var. *rapifera* - Swede.	*Alternaria brassicae* (Berk.) Sacc.	Leaf spot.
B. oleracea Linn. var. *botrytis* Linn. - Cauliflower.	*Alternaria brassicae* (Berk.) Sacc.	Leaf spot.
	Bacterium spp.	Soft rot.
	Diplodia sp.	Collar and root rot, root rot.
	Fusarium sp.	Root rot, damping off, wilt.
	Macrosporium sp.	Black head.
	Peronospora parasitica (Pers.) de By.	Downy mildew.

Brassica oleracea Linn. var. *botrytis* Linn. - Cauliflower.	*Plasmodiophora brassicae* Wor.	Club root.
	Pseudomonas campestris (Pam.) Erw. Sm.	Black rot.
	Pythium sp.	Wilt, damping off, collar and root rot.
	Rhizoctonia solani Kühn.	Damping off, collar and root rot, wilt.
	Sclerotinia sclerotiorum (Lib.) Mass.	Root and collar rot, root rot, stem rot.
	Sclerotium bataticola Taub.	Root rot.
	Leaf desiccation (non-parasitic).	
	Violet head discoloration (non-parasitic).	
	Sun scald on seedlings.	
	Greyish-white spots (non-parasitic).	
	Leaf yellowing (non-parasitic).	
	Heterodera marioni (Cornu) Goodey.	Root knot.
B. oleracea Linn. var. *capitata* Linn. - Cabbage.	*Alternaria brassicae* (Berk.) Sacc.	Black leaf spot.
	Bacterium spp.	Soft rot; head soft rot; soft root rot.
	Fusarium sp.	Root rot.
	Macrosporium sp.	Black leaf spot.
	Peronospora parasitica (Pers.) de By.	Downy mildew.
	Phoma lingam (Tode) Desm.	Damping off.
	Phyllosticta sp.	Leaf spot.
	Plasmodiophora brassicae Wor.	Club root.
	Pseudomonas campestris (Pam.) Erw.Sm.	Black rot.
	Pythium sp.	Root rot.
	Rhizoctonia solani Kühn.	Collar and root rot; damping off.
	Sclerotinia sclerotiorum (Lib.) Mass.	Head soft rot.
	Oedema (broken pustules) (non-parasitic).	

Brassica oleracea Linn. var. *capitata* Linn. - Cabbage.	Yellows and wilt of the leaves (non-parasitic).	
	Dry leaf spots (non-parasitic).	
	Orobanche sp.	Broom rape.
	Heterodera marioni (Cornu) Goodey.	Root knot.
B. oleracea Linn. var. *cymosa*. - Broccoli.	*Fusarium* sp.	Collar and root rot.
	Pythium sp.	Collar rot.
	Heterodera marioni (Cornu) Goodey.	Root knot.
B. oleracea Linn. var. *gongylodes*. - Kohlrabi.	*Alternaria brassicae* (Berk.) Sacc.	Black leaf spot.
	Peronospora parasitica (Pers.) de By.	Downy mildew.
	Plasmodiophora brassicae Wor.	Club root.
	Pseudomonas campestris (Pam.) Erw. Sm.	Black rot.
	Cuscuta sp.	Dodder.
	Heterodera marioni (Cornu) Goodey.	Rot knot.
B. oleracea Linn. var. *sabauda*.	*Pseudomonas campestris* (Pam.) Erw. Sm.	Black rot.
B. rapa Linn. - Turnip.	*Alternaria brassicae* (Berk.) Sacc.	Black leaf spot.
	Bacterium sp.	Black rot.
	Cercosporella albomaculans (Ell. et Ev.) Sacc.	Leaf spot.
	Fusarium sp.	Root rot.
	Oidium sp.	Mildew.
	Orobanche sp.	Broom rape.
	Heterodera marioni (Cornu) Goodey.	Root knot.
Capsicum annuum Linn. - Pepper.	*Alternaria* sp.	Fruit spot
	Bacterium spp.	Fruit soft rot.
	Cercospora capsici Heald et Wolf.	Leaf spot.
	Fusarium spp.	Wilt; root rot; collar and root rot.
	Oidiopsis sp.	
	Phyllosticta sp.	Leaf spot.
	Phytophthora sp. ?	Collar and root rot.
	Pythium sp.	Root rot.
	Rhizoctonia solani Kühn.	Collar and root rot.

Capsicum annuum Linn. - Pepper.	*Sclerotinia sclerotiorum* (Lib.) Mass.	Stem dry rot.
	Sclerotium bataticola Taub.	Collar and root rot.
	Sclerotium rolfsii Sacc.	Collar and root rot.
	Crinkled leaf.	Virus ?
	Frost injury.	
	Fruit malformation.	Virus ?
	Leaf curl.	Virus ?
	Leaf mosaic.	Virus ?
	Sun scald.	
	Root knot ?	
Cichorium endivia Linn. - Endive.	*Bacterium* sp.	Soft root rot.
	Bremia lactucae Regel.	Downy mildew.
	Fusarium sp.	Rot of leaf and petioles.
Cochlearia armoracia Linn. - Horse-radish.	*Albugo candida* (Pers.) Ktz.	White rust on leaves.
	Alternaria sp.	Leaf spot.
	Ascochyta armoraciae Fckl.	Leaf spot.
	Cercospora armoraciae Sacc.	Leaf spot.
	Fusarium sp.	Collar rot.
	Rhizoctonia solani Kühn.	Collar rot, root rot.
	Sclerotinia minor Jagger.	Collar rot.
	Sclerotium bataticola Taub.	Collar rot.
	Heterodera marioni (Cornu) Goodey.	Root knot.
Cucumis melo Linn. - Muskmelon, cantaloupe.	*Alternaria* sp.	Leaf spot.
	Macrosporium sp.	Leaf blight.
	Oidium sp.	Mildew.
	Peronoplasmopara cubensis (B. et C.) Clint.	Downy mildew.
	Heterodera marioni (Cornu) Goodey.	Root knot.
C. sativus Linn. - Cucumber.	*Alternaria* sp.	Black leaf spot.
	Bacterium spp.	Damping off.
	Choanephora cucurbitarum (B. et Rav.) Thar.	Blossom-end rot.
	Cladosporium sp.	Leaf blackening.
	Dematium sp.	Leaf mould.
	Fusarium sp.	Wilt, damping off, collar and root rot.
	Oidium sp.	Mildew.
	Peronoplasmopara cubensis (B. et C.) Clint.	Downy mildew.
	Phoma sp.	Damping off root shrivelling.

Cucumis sativus Linn. - Cucumber.	*Pythium aphanidermatum* (Edson) Fitz.	Shrivelling and root rot.
	Pythium sp.	Root rot, damping off.
	Rhizoctonia solani Kühn.	Wilt, damping off, collar and root rot.
	Sclerotinia sclerotiorum (Lib.) Mass.	Dry stem and root rot, damping off.
	Sclerotium bataticola Taub.	Dry root rot, collar and root rot.
	White dry leaf spots (non-parasitic).	
	Leaf drying (non-parasitic).	
	Leaf spot (non-parasitic).	
	Fruit shrivelling (non-parasitic).	
	White leaf spots (non-parasitic).	
	Mosaic.	Virus.
	Heterodera marioni (Cornu) Goodey.	Root knot.
Cucurbita pepo Linn. - Pumpkin.	*Alternaria* sp.	Fruit spot.
	Bacterium spp.	Withertip, fruit rot.
	Bacterium sp.	Fruit wilting, fruit hollow, white leaf spot.
	Fusarium sp.	Leaf shrivelling and drying, fruit rot.
	Macrophomina sp.	Fruit rot, wilt.
	Oidium sp.	Mildew.
	Rhizopus sp.	Soft fruit rot.
	Sclerotium bataticola Taub.	Stem rot, drying of plants.
	Heterodera marioni (Cornu) Goodey.	Root knot.
C. pepo Linn. var. *ovifera* Bailey. - Marrow.	*Alternaria* sp.	Fruit spot, black leaf spot.
	Bacterium spp.	Collar soft rot, blossom end rot.
	Cladosporium sp.	Leaf sooty mould.
	Colletotrichum sp.	Fruit spot.
	Fusarium sp.	Yellowing of the fruit, blossom end rot, root rot mildew.
	Oidium sp.	Blossom and rot.
	Pythium sp.	Collar and root rot.
	Rhizoctonia solani Kühn.	Fruit soft rot.

Cucurbita pepo Linn. var. *ovifera* Bailey - Marrow.	*Rhizopus nigricans* Ehrenb.	Fruit rot, root and petiole rot.
	Sclerotinia sclerotiorum (Lib.) Mass.	
	Blossom end rot (undetermined).	
	Chlorosis, dry spots on leaves (undetermined).	
	Shrivelling and dropping of the young fruit (non-parasitic).	
	Mosaic (? virus).	Leaves.
	Rosette (? virus).	
	Heterodera marioni (Cornu) Goodey.	Root knot.
Cynara scolymus Linn. - Artichoke.	*Bacterium* sp.	Soft root rot.
	Botrytis sp.	Rot, leaves.
	Cladosporium sp.	Blossom blight.
	Fusarium sp.	Leaf rot, blossom rot.
	Oidiopsis taurica Tepper.	Mildew.
	Heterodera marioni (Cornu) Goodey.	Root knot.
Daucus carota Linn.	*Aecidium* sp.	Leaf scorch.
	Alternaria sp.	Leaf blight, leaf scorch, yellows, leaf spot.
	Bacillus carotovorus L. R. Jones.	Soft rot.
	Cercospora apii-carotae Pass.	Leaf blight and spot.
	Fusarium sp.	Yellowing of the leaves, damping off, root rot
	Macrosporium carotae Ell. et A. B. Langlois.	Leaf blight.
	Oidium sp.	Mildew.
	Rhizoctonia solani Kühn.	Wilt.
	Sclerotium bataticola Taub.	Collar and root rot, root rot.
	Root cracking (non-parasitic).	
	Yellow discoloration and drying of leaves (non-parasitic).	
	Orobanche sp.	Brown rape.
	Heterodera marioni (Cornu) Goodey.	Root knot.

Foeniculum sp. – Dill.	*Marssonina kirchneri* Hegyi.	Stem and leaf blight.
Helianthus tuberosus Linn. – Jerusalem Artichoke.	*Fusarium* sp.	Corm wilt, collar and root rot.
	Sclerotium bataticola Taub.	Collar and root rot.
Hibiscus esculentus Linn. – Okra.	*Erysiphe cichoracearum* DC.	Powdery mildew.
	Stemphylium sp.	Leaf spot.
	Leaf spot (non-parasitic).	
Ipomoea batatas Poir. – Sweet potato.	*Alternaria* sp.	Leaf spot.
	Fusarium sp.	Tuber and root rot.
	Rhizoctonia solani Kühn.	Root rot.
	Sclerotinia sclerotiorum (Lib.) Mass.	Tuber rot.
	Leaf spot (non-parasitic).	
	Tuber cracking (non-parasitic).	
	Root rot (undetermined).	
Lactuca sativa Linn. - Lettuce.	*Alternaria* sp.	Leaf spot.
	Bacterium spp.	Soft rot.
	Bremia lactucae Regel.	Downy mildew
	Cercospora sp.	Leaf spot.
	Fusarium sp.	Collar and root rot.
	Pythium sp.	Associated with collar rot.
	Rhizoctonia solani Kühn.	Collar rot, damping off.
	Sclerotinia minor Jagger.	Soft rot, drop.
	Sclerotinia sclerotiorum (Lib.) Mass.	Soft rot.
	Sclerotinia sp.	Soft rot, wilt.
	Heterodera marioni (Cornu) Goodey.	Root knot.
Lagenaria vulgaris Ser. - Pumpkin.	*Oidium* sp.	Mildew.
	Mosaic (virus ?).	Leaves.
Oxalis sp.	*Phyllosticta* sp.	Leaf spot.
Petroselinum sativum Hoffm. - Parsley.	*Cercospora apii* Fresen.	Leaf spot.
	Ramularia sp.	Leaf spot.
	Sclerotium bataticola Taub.	Associated with root-knot of undetermined cause.
	White tip (non-parasitic).	Root knot.
	Heterodera marioni (Cornu) Goodey.	
Phaseolus vulgaris Linn. - Runner Bean.	*Alternaria* sp.	Drying of leaves.
		Leaf spot.

Phaseolus vulgaris Linn. - Runner Bean.	*Ascochyta phaseolorum* Sacc.	Leaf spot.
	Bacterium sp.	Seed wilt.
	Cercospora sp.	Leaf spot.
	Colletotrichum lindemuthianum (Sacc. et Magn.) Briosi et Cav.	Anthracnose.
	Erysiphe communis (Wallr.) Fr.	Powdery mildew.
	Fusarium sp.	Wilt, damping off, collar and root rot.
	Macrosporium sp.	Leaf spot.
	Phyllosticta sp.	Leaf spot.
	Pythium sp.	Collar rot.
	Rhizoctonia solani Kühn.	Collar and root rot, damping off.
	Sclerotinia sclerotiorum (Lib.) Mass.	Stem rot.
	Sclerotium bataticola Taub.	Wilt, damping off, collar and root rot.
	Sclerotium zolfsii Sacc.	Collar rot.
	Uromyces appendiculatus (Pers.) Lk.	Rust.
	Blight (undetermined).	
	Chlorosis (non-parasitic).	
	Frost injury.	
	Leaf scorch (non-parasitic).	
	Leaf spot (non-parasitic).	
	Leaf spot (undetermined).	
	Pod spot (non-parasitic).	
	Pod spot (undetermined).	
	Crinkle (virus ?).	
	Leaf curl (virus ?).	
	Mosaic (virus ?).	
	Heterodera marioni (Cornu) Goodey.	Root knot.
Pisum sativum Linn. - Pea.	*Ascochyta pisi* Lib.	Leaf spot.
	Fusarium sp.	Stem, collar and root rot; blossom rot.
	Oidium sp.	Powdery mildew.
	Rhizoctonia solani Kühn.	Root rot; stem rot.
	Uromyces pisi (Pers.) de By.	Rust.
	Black spot (non-parasitic).	Seed.

Pisum sativum Linn. - Pea.	Frost injury.	
	Mosaic (virus ?).	
	Orobanche speciosa DC.	Brown rape.
	Orobanche sp.	Brown rape.
	Heterodera marioni (Cornu) Goodey.	Root knot.
Raphanus sativus Linn. - Radish.	*Albugo candida* (Pers.) Ktz	White rust.
	Alternaria brassicae (Berk.) Sacc.	Leaf spot.
	Bacterium tumefaciens EFS. et Town.	Crown gall.
	Cercospora armoraciae Sacc.	Leaf spot.
	Cladosporium sp.	Leaf spot. Associated with *Fusarium* and *Stemphylium.*
	Fusarium sp.	Root rot. Associated with *Cladosporium* and *Stemphylium.*
	Oidium sp.	Mildew.
	Peronospora parasitica (Pers.) de By.	Powdery mildew.
	Plasmodiophora brassicae Wor.	Club root.
	Pseudomonas campestris (Pam.) Erw. Sm.	Black rot.
	Sclerotium bataticola Taub.	Root rot.
	Stemphylium sp.	Leaf spot. Associated with *Cladosporium* and *Fusarium.*
	Black spots on root bark (non-parasitic).	
	Mosaic (virus ?), rosette	On leaves.
	Heterodera marioni (Cornu) Goodey.	Root knot.
R. sativus Linn. var. *radicula.*	*Albugo candida* (Pers.) Ktz.	White rust.
	Plasmodiophora brassicae Wor.	Club root.
	Heterodera marioni (Cornu) Goodey.	Root knot.
Rheum undulatum Linn.	*Ascochyta rhei* Ell. et Ev.	Leaf spot.
	Bacterium sp.	Soft root rot.

Rheum undulatum Linn.	*Cercospora rhei* Teh. et Dan.	Leaf spot.
	Fusarium sp.	Associated with *Rhizoctonia solani* Kühn and *Sclerotium bataticola* Taub.
		Root rot.
	Macrosporium sp.	Leaf spot.
	Rhizoctonia solani Kühn.	Leaf stalk base rot.
	Sclerotium bataticola Taub.	Collar rot, rot of the leaf stalk base.
Rheum sp. - Rhubarb.	*Alternaria* sp.	Leaf spot.
	Oidium sp.	Mildew.
	Ramularia rhei Allesch.	Leaf spot.
	Heterodera marioni (Cornu) Goodey.	Root knot.
Scorzonera hispanica Linn. - Serpent root.	*Heterodera marioni* (Cornu) Goodey.	Root knot.
Solanum lycopersicum Journ. - Tomato.	*Alternaria solani* (Ell. et Mart.) Jones et Grout.	Leaf spot.
	Bacterium spp.	Drying of leaves, leaf spots, blossom end rot, fruit spots, water soaked spots, dry rot, soft fruit rot.
	Cladosporium fulvum Cke.	Leaf mould.
	Colletotrichum phomoides (Sacc.) Chester.	Anthracnose on fruit.
	Didymella lycopersici (Brun.) Klebahn.	Fruit blight.
	Fusarium bulbigenum Cooke et Massee var. *lycopersici* (Brushi) Wollw. et Reinking.	Wilt, darkening of the vascular bundles.
	Fusarium equiseti (Corda) Sacc.	Root rot.
	Fusarium sp.	Collar and root rot, wilt, damping off, yellow discoloration and shrivelling of the plant.
	Macrosporium solani E. et M.	Leaf spot, root rot.
	Oidiopsis sp.	Mildew.
	Phoma destructiva Plow.	Fruit rot, leaf spot.

Solanum lycopersicum Journ. – Tomato.	*Phyllosticta* sp.	Leaf spot.
	Phytophthora infestans (Mont.) de By.	Late blight.
	Phytophthora parasitica Dast.	Fruit rot.
	Phytophthora sp.	Fruit rot.
	Pleospora sp.	Fruit spot. Associated with *Macrosporium* fruit spot.
	Pythium aphanidermatum (Eds.) Fitz.	Stem and collar rot.
	Pythium sp.	Collar and root rot, wilt, fruit rot, damping off.
	Rhizoctonia solani Kühn.	Collar and root rot, wilt, damping off.
	Sclerotinia minor Jagger.	Dry stem rot, fruit rot, collar and root rot.
	Sclerotinia sclerotiorum (Lib.) Mass.	Stem and collar dry rot, fruit rot.
	Sclerotium bataticola Taub.	Collar and root rot, wilt, root rot, damping off.
	Sclerotium rolfsii Sacc.	Stem, collar and root rot.
	Septoria lycopersici Speg.	Leaf spot.
	Black tip.	
	Blossom drop (non-parasitic).	
	Blossom end rot (non-parasitic).	
	Dry fruit and leaf spot (non-parasitic).	
	Flower drop (non-parasitic).	
	Fruit cracking (non-parasitic).	
	Fruit drop (non-parasitic).	
	Frost injury.	
	Hail injury.	
	Gum spot (non-parasitic).	
	Sun scald (non-parasitic).	
	Soft fruit rot (undetermined).	
	White downy leaf cover (undetermined).	

Solanum lycopersicum Journ. – Tomato.	Withertip (non-parasitic).	
	Big bud (fern leaf).	
	Crinkle.	
	Curly top.	
	Fern leaf.	
	Leaf curl.	
	Leaf roll.	
	Mosaic.	
	Narrow leaf, dwarf.	
	? Rosette.	
	Rugose mosaic.	
	Streak (spotted wilt ?).	
	Orobanche aegyptiaca Pers.	
	Orobanche sp.	
	Heterodera marioni (Cornu) Goodey.	Root knot.
S. melongena Linn. - Eggplant.	*Alternaria solani* (Ell. et Mart.) Jones et Gr.	Damping off ?
		Leaf spot, fruit spot.
	Bacterium spp.	Soft fruit rot, wilt.
	Colletotrichum atramentarium (Berk. et Br.) Taub.	Fruit rot, leaf spot, anthracnose.
	Fusarium sp.	Collar and root rot, fruit rot, damping off.
	Macrosporium solani E. et M.	Leaf drop, and spot.
	Oidiopsis taurica Tepper.	Mildew.
	Phoma sp.	Leaf drop, yellowing of stems.
		Associated with stem-end rot.
		Associated with wilt and rot of seedlings.
		Associated with collar and root rot.
	Pleospora sp.	Stem spot.
	Pythium sp.	Wilt.
	Pythium sp.	Wilt; root rot; collar and root rot.
	Rhizoctonia solani Kühn.	Wilt, damping off; collar and root rot.
	Sclerotinia minor Jagger.	Stem rot.
	Sclerotinia sclerotiorum (Lib.) Mass.	Fruit rot, stem rot, collar rot.

Solanum melongena Linn. – Eggplant.	*Sclerotium bataticola* Taub.	Collar and root rot, damping off.
	Sclerotium rolfsii Sacc.	Stem rot, collar rot; collar and root rot.
	Septoria lycopersici Speg.	Leaf spot.
	Stemphylium sp.	Leaf spot.
	Verticillium albo-atrum Reinke et Berth.	Tracheomycotic wilt.
	Black small leaf spots (undetermined).	
	Black tip (non-parasitic).	
	Blossom drop (non-parasitic).	
	Brownishing of the fruit, frost injury.	
	Fruit cracking (non-parasitic).	
	Leaf cracking (non-parasitic).	
	Spray injury on leaves.	
	Big bud (virus ?).	
	Mosaic leaf spots (virus).	
	White cover on leaf surface (non-parasitic).	
	Wither-tip (non-parasitic).	
	Heterodera marioni (Cornu) Goodey.	Root knot.
S. *tuberosum* Linn. - Potato.	*Actinomyces scabies* (Thaxt.) Güssow.	Common scab
	Alternaria solani (Ell. et Mart.) R. Jones et Gr.	Fruit leaf spot.
	Bacillus phytophthorus Appel.	Black leg.
	Bacterium spp.	Collar and root rot, tuber soft rot, black tip, wither-tip, root rot, black leg.
	Diplodia sp.	Tuber rot.
	Fusarium sp.	Collar and root rot, wilt, tuber rot, damping off.
	Macrosporium solani E. et M.	Black leaf spot.
	Oidium sp.	Mildew.
	Phoma sp.	Collar and root rot.
	Phyllosticta sp.	Leaf spot.

Solanum tuberosum Linn. - Potato.	*Phytophthora infestans* (Mont.) de By.	Late blight.
	Pythium sp.	Stem rot, tuber rot.
	Rhizoctonia solani Kühn.	Collar and root rot, stem rot, brownish tuber spots.
	Sclerotinia minor Jagger.	Collar and stem dry rot.
	Sclerotinia sclerotiorum (Lib.) Mass.	Stem rot.
	Sclerotium bataticola Taub.	Collar and root rot, black tuber rot, black tuber spots; dry stem rot.
	Sclerotium rolfsii Sacc.	Collar, root and tuber rot; collar rot.
	Spongospora subterranea (Wallr.) Johnson.	Powdery scab.
	Stemphylium sp.	Leaf spot.
	Black dry leaf spots (non-parasitic).	
	Leaf scorch (non-parasitic).	
	Lenticel enlargement (non-parasitic).	
	Sun scald (nonparasitic).	
	Tip burn (non-parasitic).	
	Aucuba mosaic.	
	Calico.	
	Crinkle.	On leaves.
	Leaf curl.	
	Leaf roll.	
	Mosaic.	
	Net necrosis.	
	Streak.	
	Heterodera marioni (Cornu) Goodey.	Root knot.
Spinacia oleracea Linn. - Spinach.	*Ascochyta chenopodii* Rostr.	Leaf blight.
	Cercospora flagelliformis Ell. et Hals.	Leaf spot.
	Peronospora effusa (Grev.) Ces.	Downy mildew.
	Phyllosticta chenopodii Sacc.	Leaf spot.
	Rhizoctonia solani Kühn.	Yellowing of leaves.
	Black tip (non-parasitic).	

Spinacia oleracea Linn. - Spinach.	Leaf yellowing (non-parasitic).	
	Cuscuta sp.	
	Heterodera marioni (Cornu) Goodey.	Root knot.
Tetragonia expansa Thunb. - New Zealand spinach.	*Alternaria* sp.	Black spot.
	Cercospora flagelliformis Ell. et Hals.	Spot.
	Fusarium sp.	Root rot.
	Phoma sp.	Spot.
	Sclerotinia sclerotiorum (Lib.) Mass.	Dry rot.
	Leaf scorch (non-parasitic).	
	Leaf yellowing (non-parasitic).	
	Panachure (non-parasitic).	

LEGISLATIVE AND ADMINISTRATIVE MEASURES

Belgium. — With a view to checking the heavy damage caused by sparrows especially to cereal crops, a Ministerial Decree of July 27, 1939 authorizes the capture of these birds by means of a draw-net up to August 25 inclusive, in the province of East Flanders and in the district of Antwerp. (*Moniteur Belge*, Bruxelles, 4 août 1939, 109e année, nº 216, p. 5440-5441).

Brazil (State of São Paulo).— Instructions No. 6 of January 2, 1939 include the restrictions relative to the transport of plants, parts of plants and packing material by rail in São Paulo State. (*O Biologico*, São Paulo, fevereiro de 1939, anno V, nº. 2, pag. 46).

Denmark. — Decree No. 44 of February 12, 1939 establishes the regulations relative to the import of plants and parts of plants. (*Lovtidenden A.*, København, 2. Marts 1939, Nr. 37-46, sid. 81-84).

Spain. — 'Orden' of July 27, 1939 relative to locusts establishes the regulations to be observed for the inspection and surveying of egg deposits with a view to their destruction. (*Boletín Oficial del Estado*, Burgos, 30 julio 1939, año IV, núm. 211, págs. 4121 y 4122).

Hungary. — The Royal Legation of Hungary at Rome has transmitted to the International Institute of Agriculture a list of the signatures of the experts authorized to sign the certificates issued by the official Phytosanitary Service of the Kingdom of Hungary.

Italy. — By two Ministerial Decrees of July 5, 1939, the territories of the communes of Sala Consilina and Buccino, Province of Salerno, and of Moricone, Province of Rome, have been declared to be infested with grape phylloxera. (*Gazzetta Ufficiale del Regno d'Italia*, Roma, 11 luglio 1939, anno 80º, n. 160, p. 3165).

New Zealand. — By Special Order made by the Southland County Council on May 12, 1939, and published by the Minister of Agriculture on June 2, 1939, hemlock (*Conium maculatum*) is declared to be a noxious weed within all parts of the County of Southland not comprised in a town district. (*The New Zealand Gazette*, Wellington, June 8, 1939, Numb. 42, p. 1730).

Poland * — Four Decrees of May 10, 1939 establish the measures relative to the control of the potato wart disease (*Synchytrium endobioticum*), weeds and plant pests, rodents (*Spermophilus guttatus, Cricetus frumentarius*, etc.) and the apple woolly aphis (*Eriosoma lanigerum*).

Southern Rhodesia. — Government Notice No. 296 of July 7, 1939 fixes the 1st of October, 1939, in respect of the year 1939, as the date by which all cotton plants throughout the Colony must have been destroyed in such manner as to prevent their continuing to grow. (*Colony of Southern Rhodesia Government Gazette*, Salisbury, 7th July, 1939, Vol. XVII, No. 27, p. 670).

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NOTES

Official Correspondents of the Institute. — Mr. LEO BRAMMANIS, entomologist at the Department of Forestry, Ministry of Agriculture, Riga, and Mr. PĒTERIS PĒTERSONS, phytopathologist in the same department, have been nominated official correspondents of the International Institute of Agriculture for all questions regarding the protection of forest plants in Latvia.

International Committee for the Mutual Study of the Control of the Colorado Beetle. — The Government of Great Britain and North Ireland has joined the International Committee for the Mutual Study of the Control of the Colorado beetle (*Leptinotarsa decemlineata*).

Prof. UGO PAPI, *Segretario generale dell'Istituto, Direttore responsabile.*

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